What is claimed is:

1. A mechanism for deflecting a headlamp optical axis, the mechanism comprising:

a connecting lever defining a first end and a second end, and having the first end fixed to a headlamp assembly which emits light and which is mounted on an automotive vehicle, a prescribed portion between the first and second ends of the connecting lever being attached in a horizontally movable manner to one predetermined portion of an outside frame which either encloses the headlamp assembly or constitutes a body of the automotive vehicle;

a bracket having a first end thereof attached to another predetermined portion of the outside frame;

a motor including a motor body which includes a rotating mechanism, and a rotary shaft which has a rearward portion thereof inserted through the motor body, has a frontward portion thereof sticking out from the motor body, and which has a spiral screw formed on the frontward portion thereof;

a motor attaching member for attaching the motor to a second end of the bracket such that the motor can move horizontally; and

a traveling block shaped substantially hollow-cylindrical, having a screw formed on its inner circumference so as to threadedly engage with the spiral screw formed on the rotary shaft, and having its outer circumference attached to the second end of the connecting lever in a horizontally movable manner, the traveling block being caused to travel along the rotary shaft when the rotary shaft rotates with respect to the motor body.

2. A mechanism according to Claim 1, wherein the headlamp assembly emits light from its front surface and has its rear portion fixed to the connecting lever.

3. A mechanism according to Claim 1, wherein the connecting lever, the bracket, the motor, the motor attaching member, and the traveling block are housed in a chassis.

4. A mechanism according to Claim 1, wherein the motor is a stepping motor.

5. A mechanism according to Claim 1, wherein the motor attaching member is constituted by a front end plate which has a center hole formed at its main section and allowing the rotary shaft to go therethrough, includes arm sections formed at rim portions of the main section and bent toward a rear end of the motor body, and which has the main section attached to a portion of the motor body having the rotary shaft sticking out, and wherein the motor is attacheded such that the arm sections of the front end plate are movably jointed to the second end of the bracket.

6. A mechanism for swinging an object, the mechanism comprising:

a motor including a motor body which includes a rotating mechanism, and a rotary shaft which has a rearward portion thereof inserted through the motor body, has a frontward portion thereof sticking out from the motor body, an which has a spiral screw formed on the frontward portion thereof;

a traveling block shaped substantially hollow-cylindrical, and having a screw formed on its inner circumference so as to threadedly engage with the spiral screw formed on the rotary shaft, the traveling block being caused to travel along the rotary shaft when the rotary shaft rotates with respect to the motor body;

a bracket including a leg section to be fixed to one predetermined portion of an outside support body, and a motor holding section to hold the motor such that the motor can move in a plane; and

a connecting lever having a first end thereof fixed to an object to be swung,

and having a second end thereof freely attached to an outer circumference of the traveling block such that the traveling block can travel along the rotary shaft in a plane parallel to the plane in which the motor moves, a prescribed portion between the first and second ends of the connecting lever being attached to another predetermined portion of the outside support body such that the first and second ends of the connecting lever can move in a plane parallel to the plane in which the motor moves.